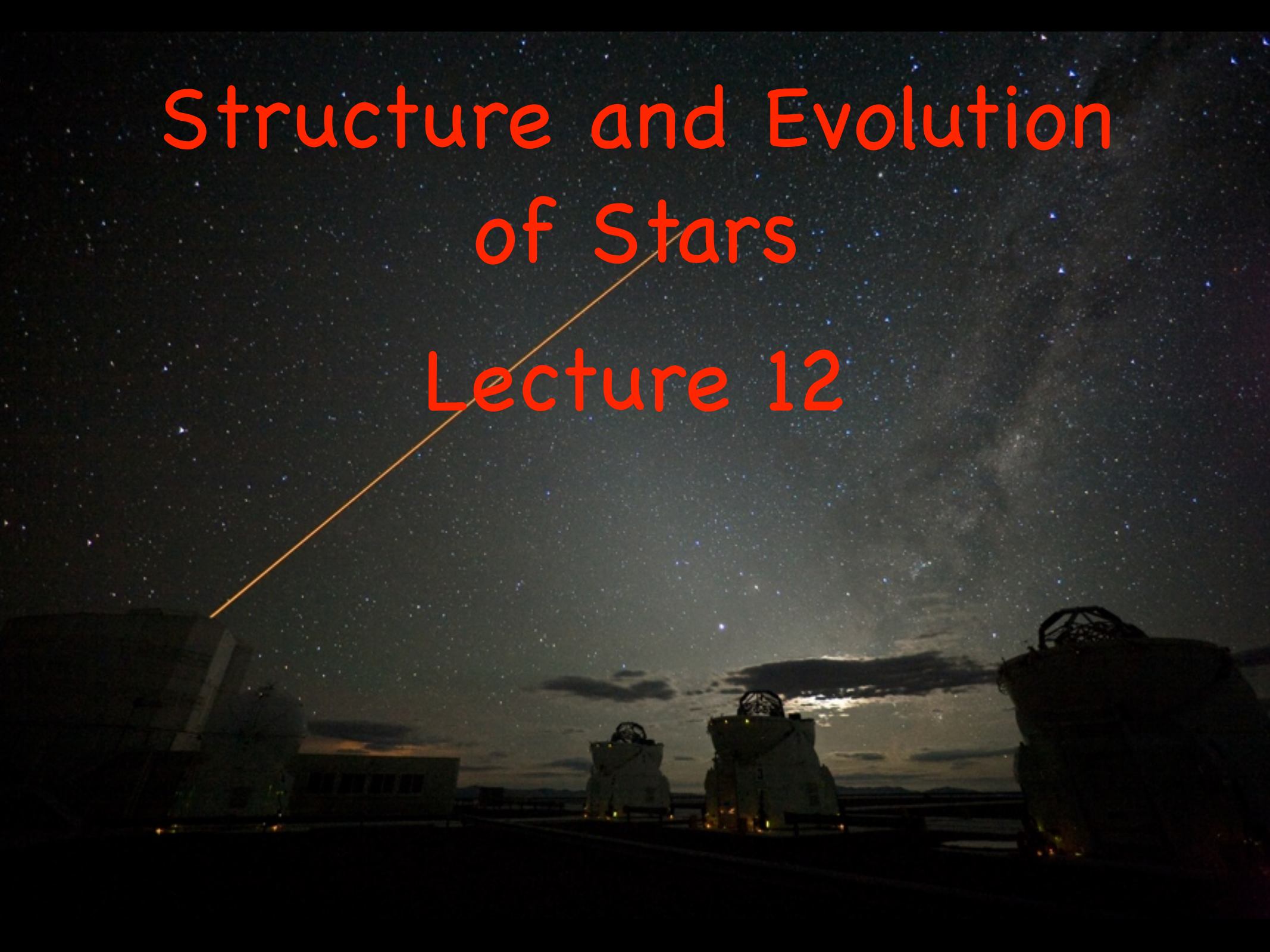
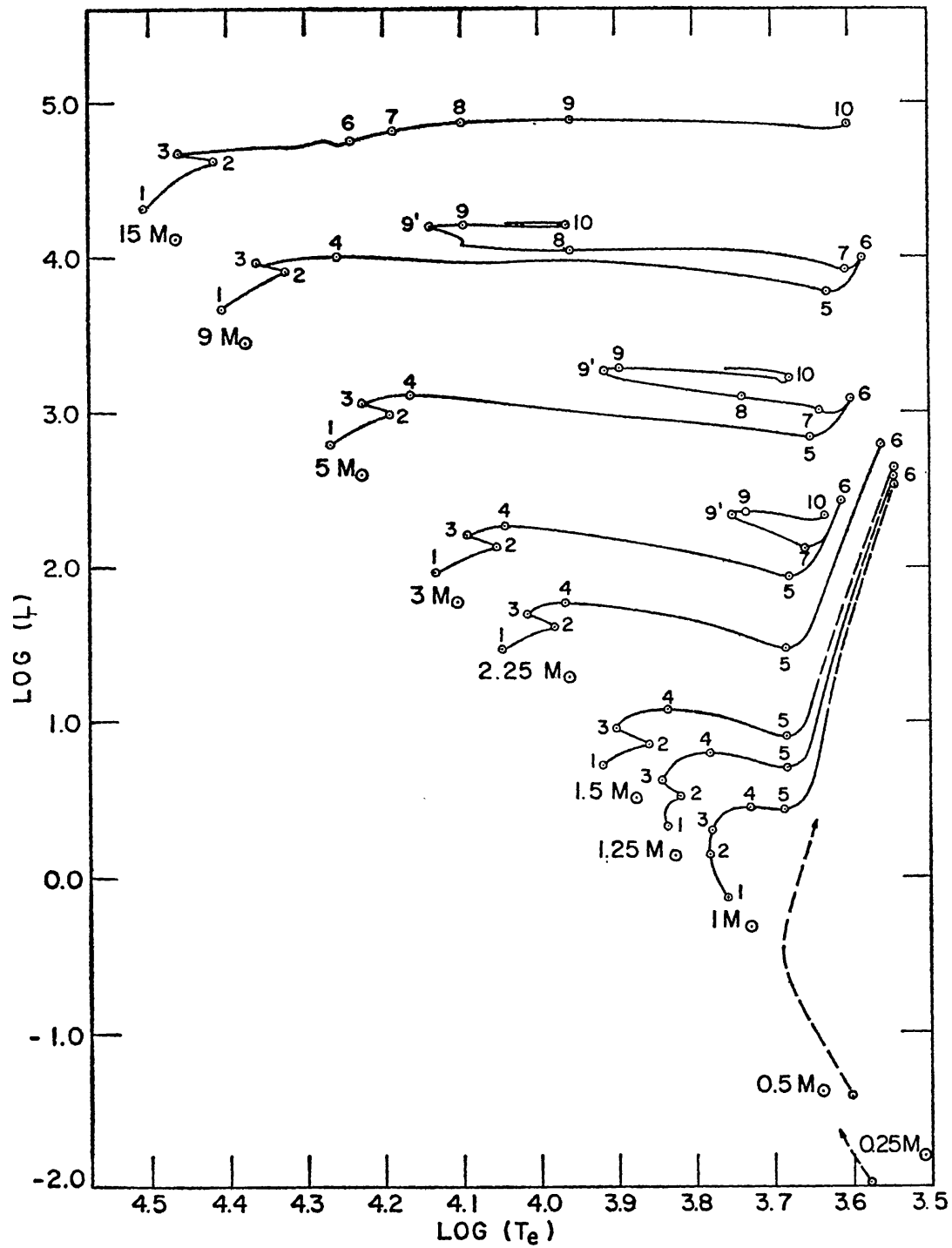


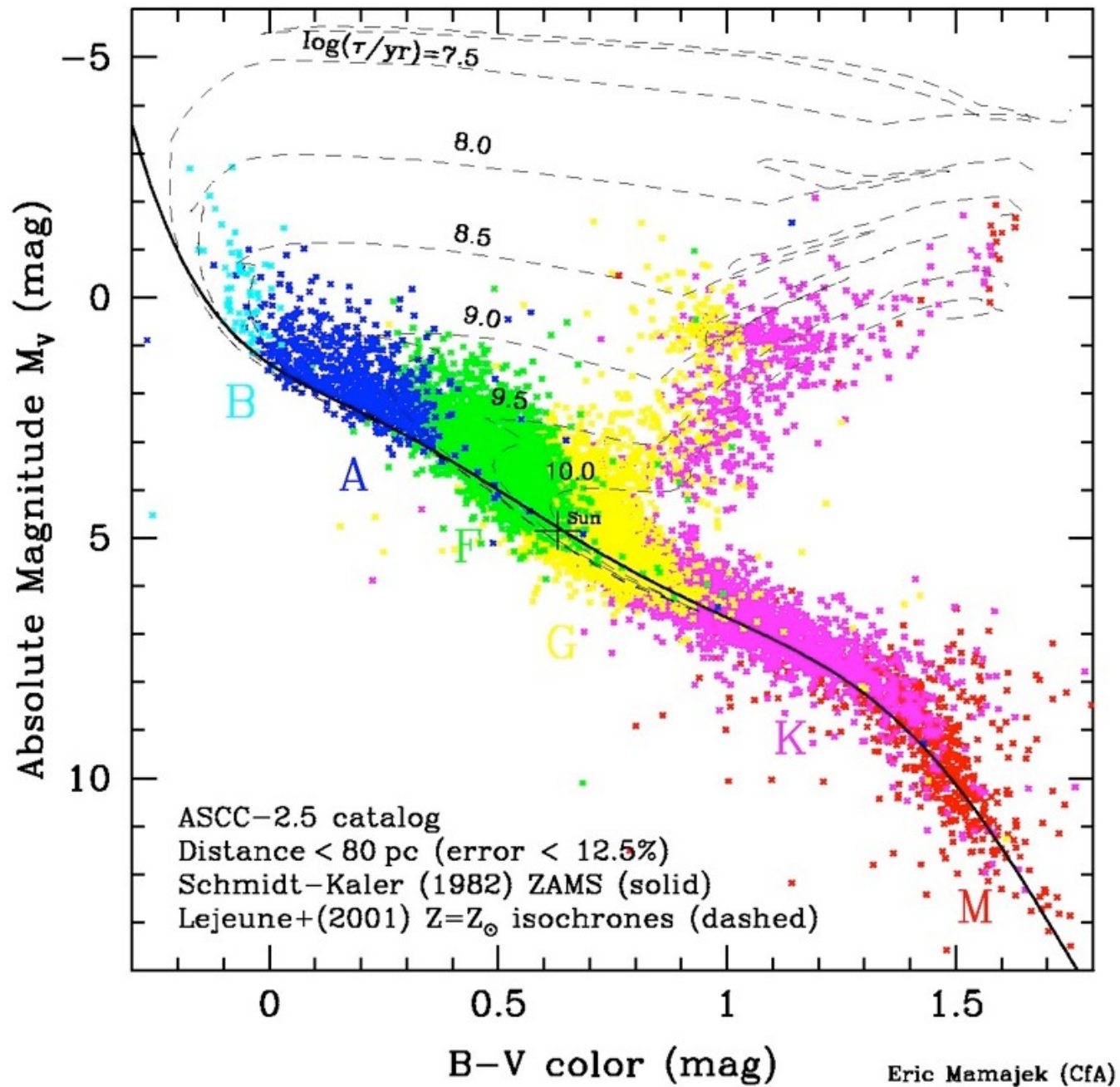
Structure and Evolution of Stars

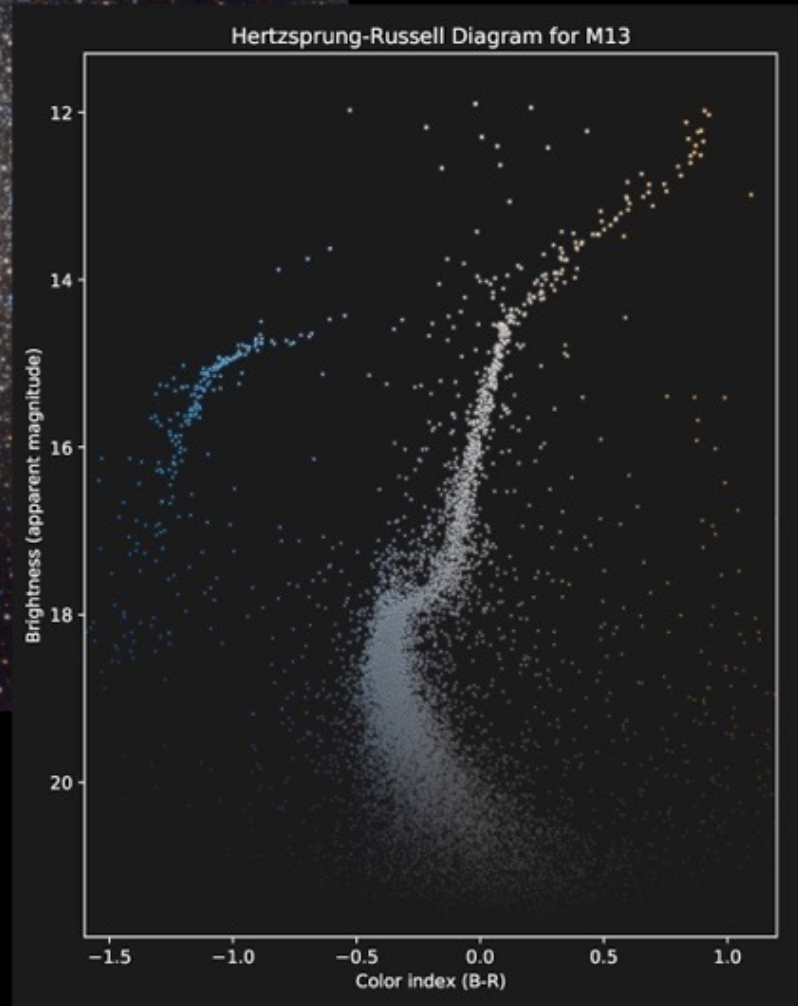
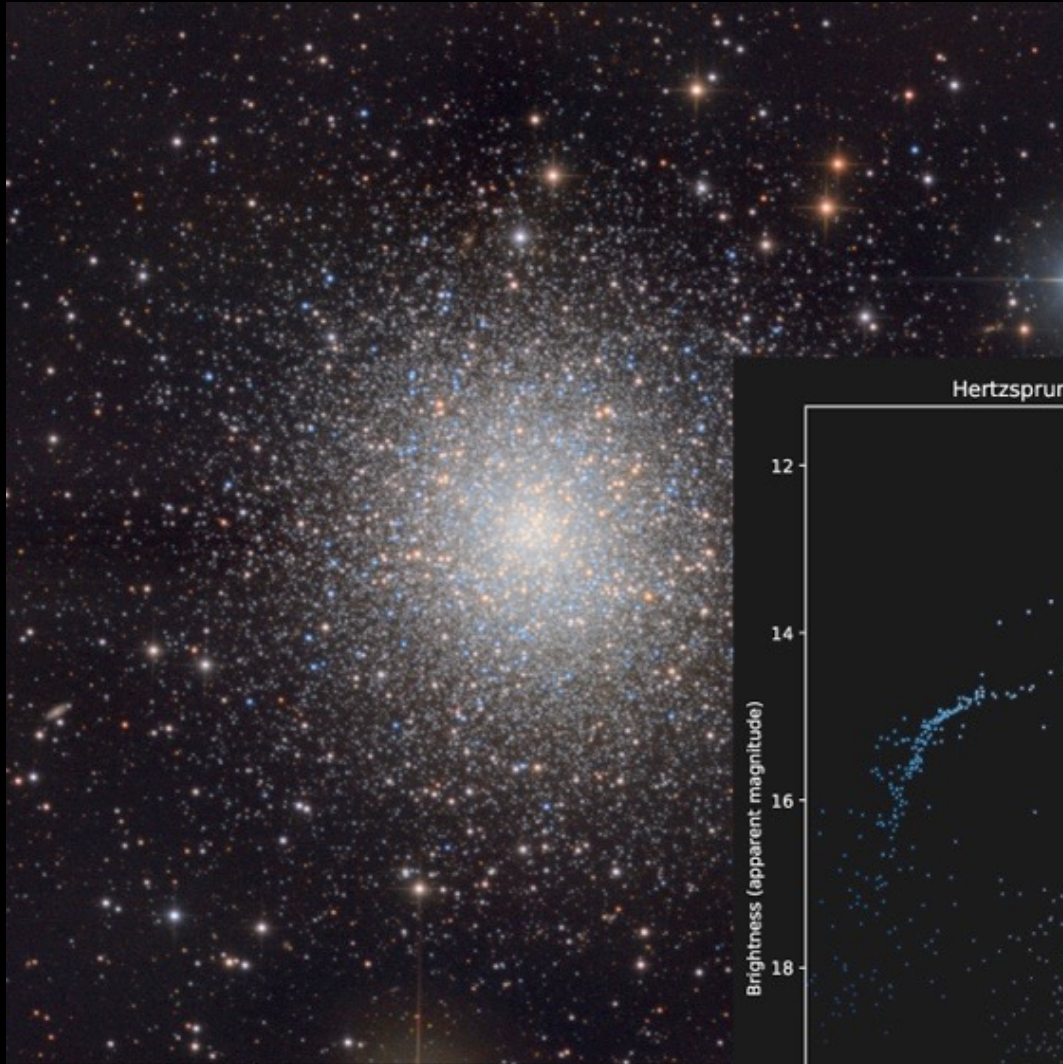
Lecture 12



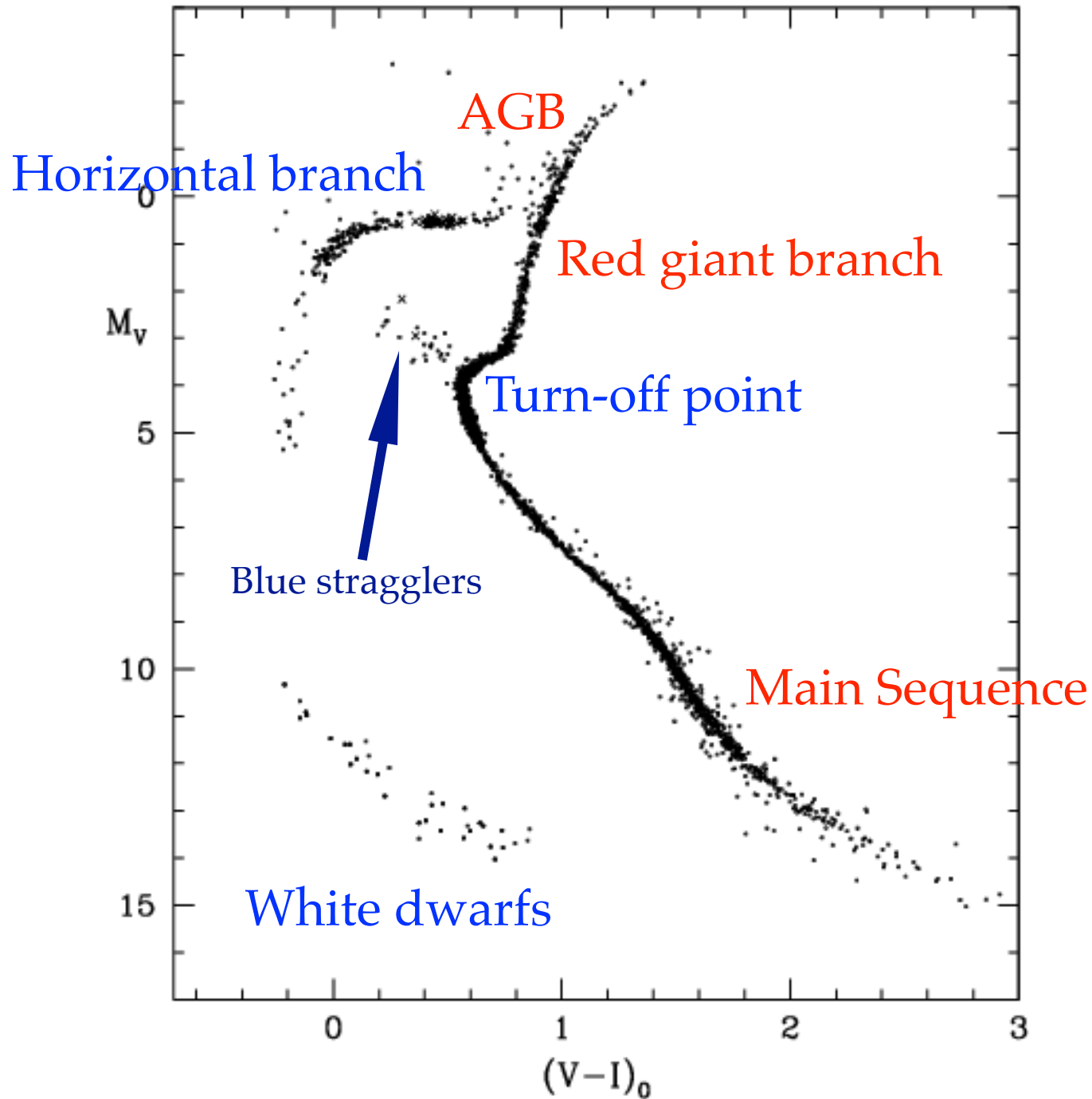


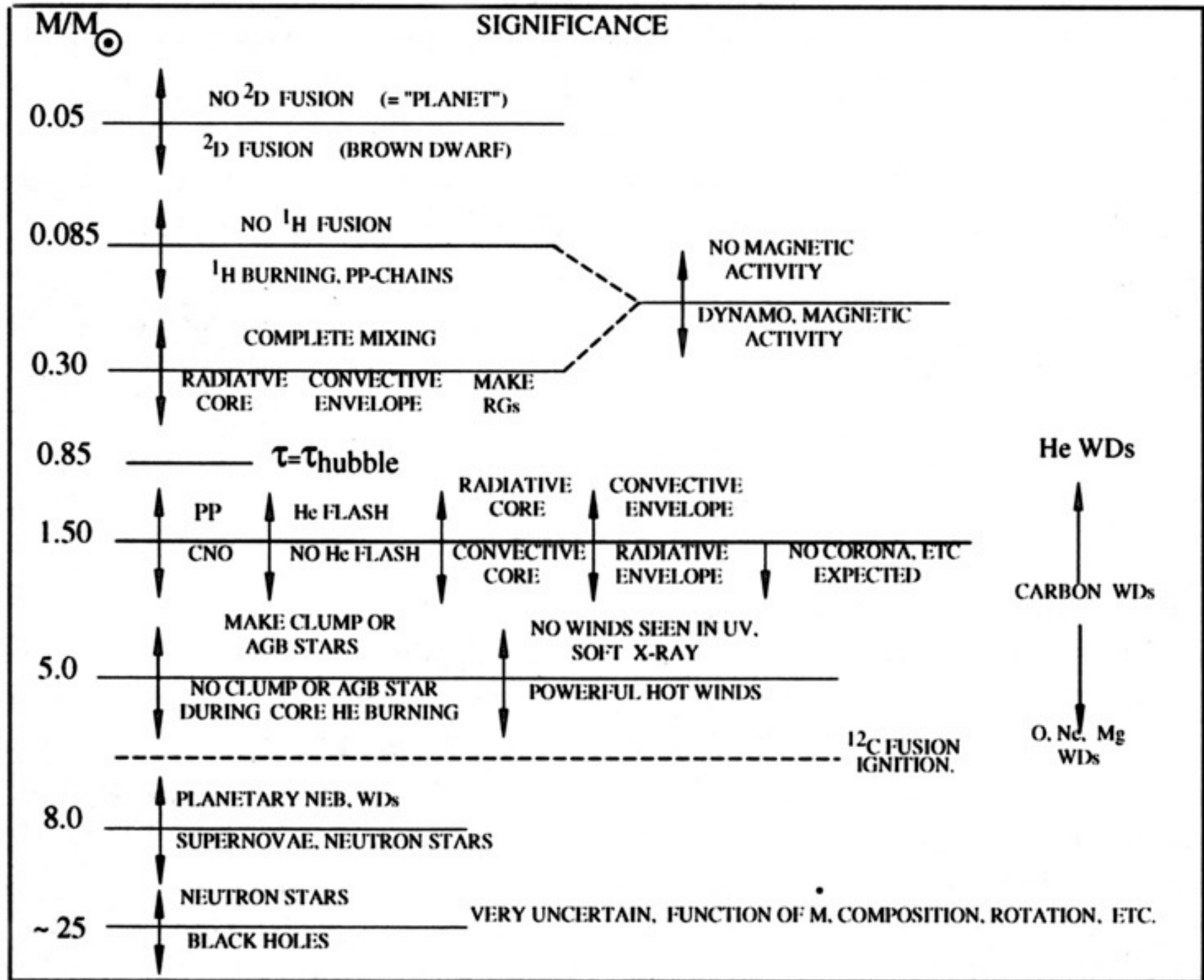
Iben 1967

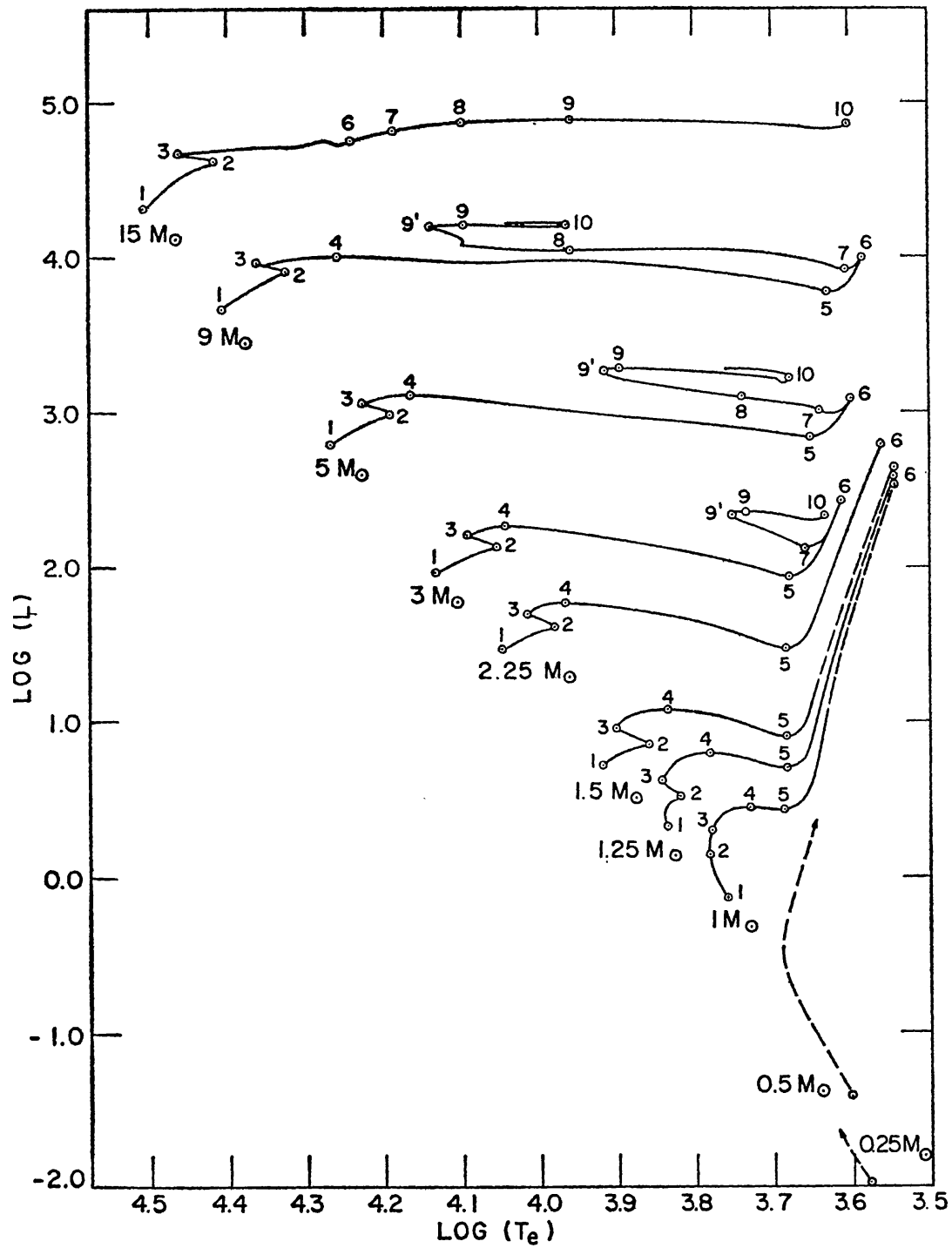




HR diagram of a typical globular cluster

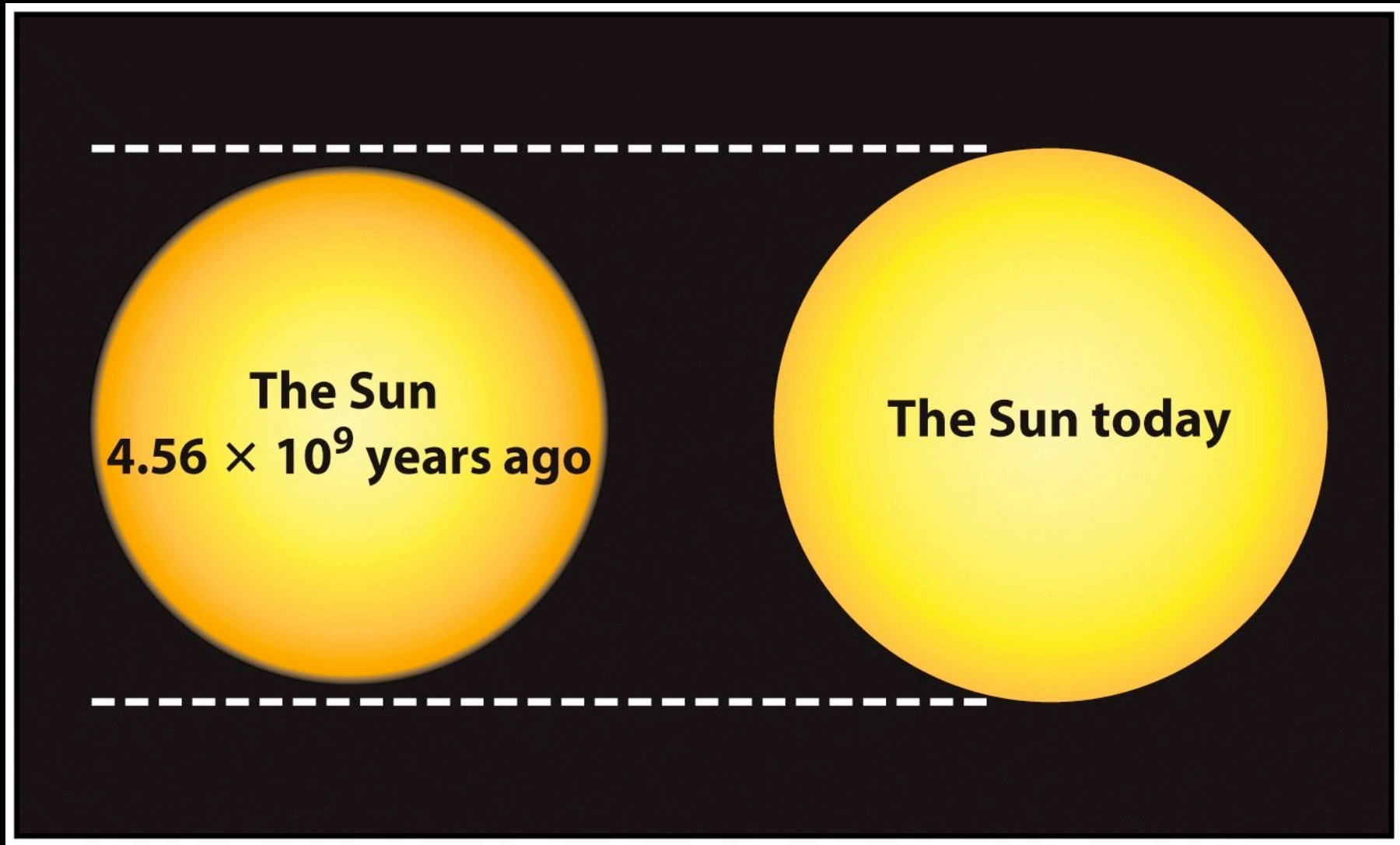




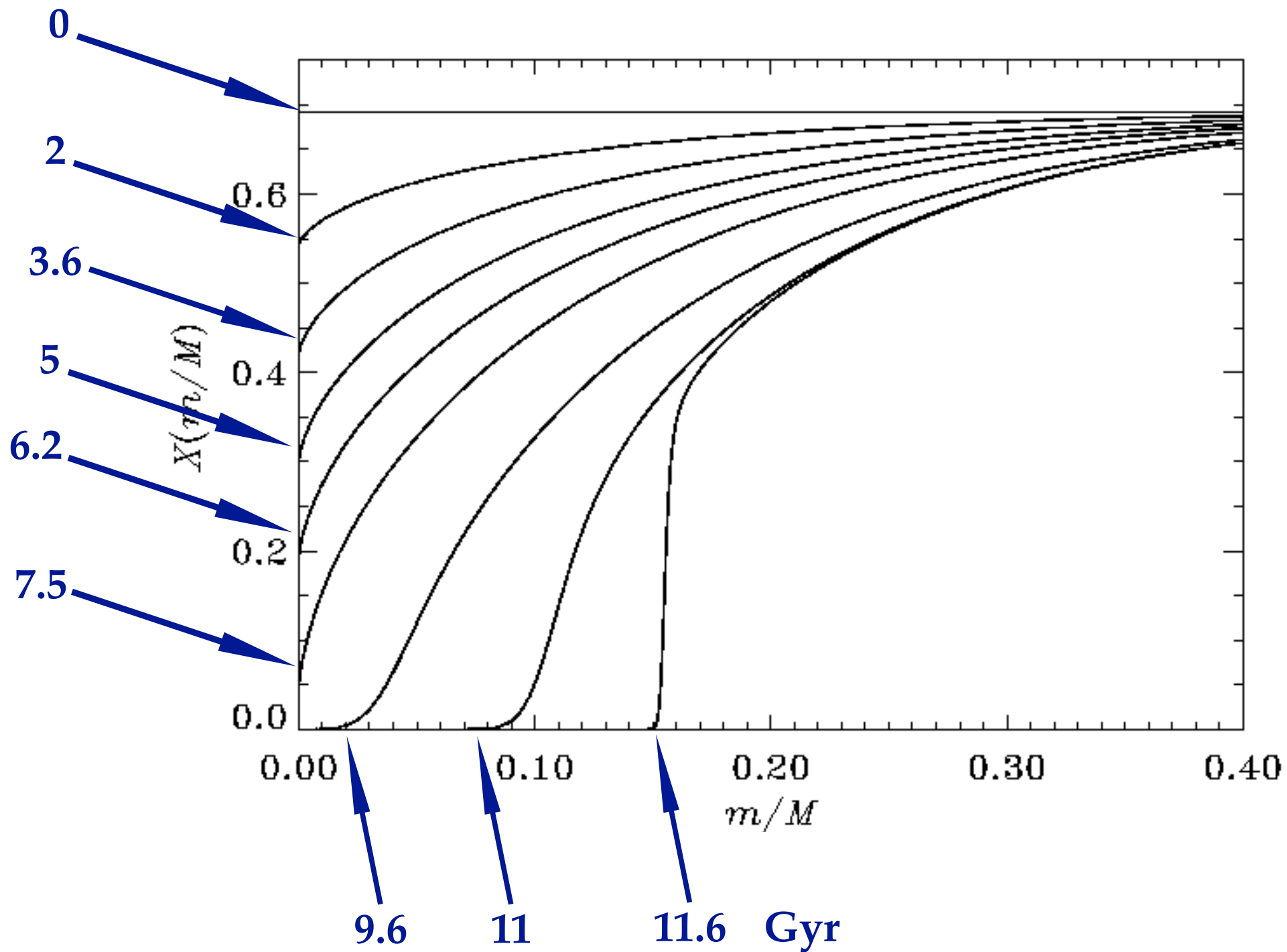


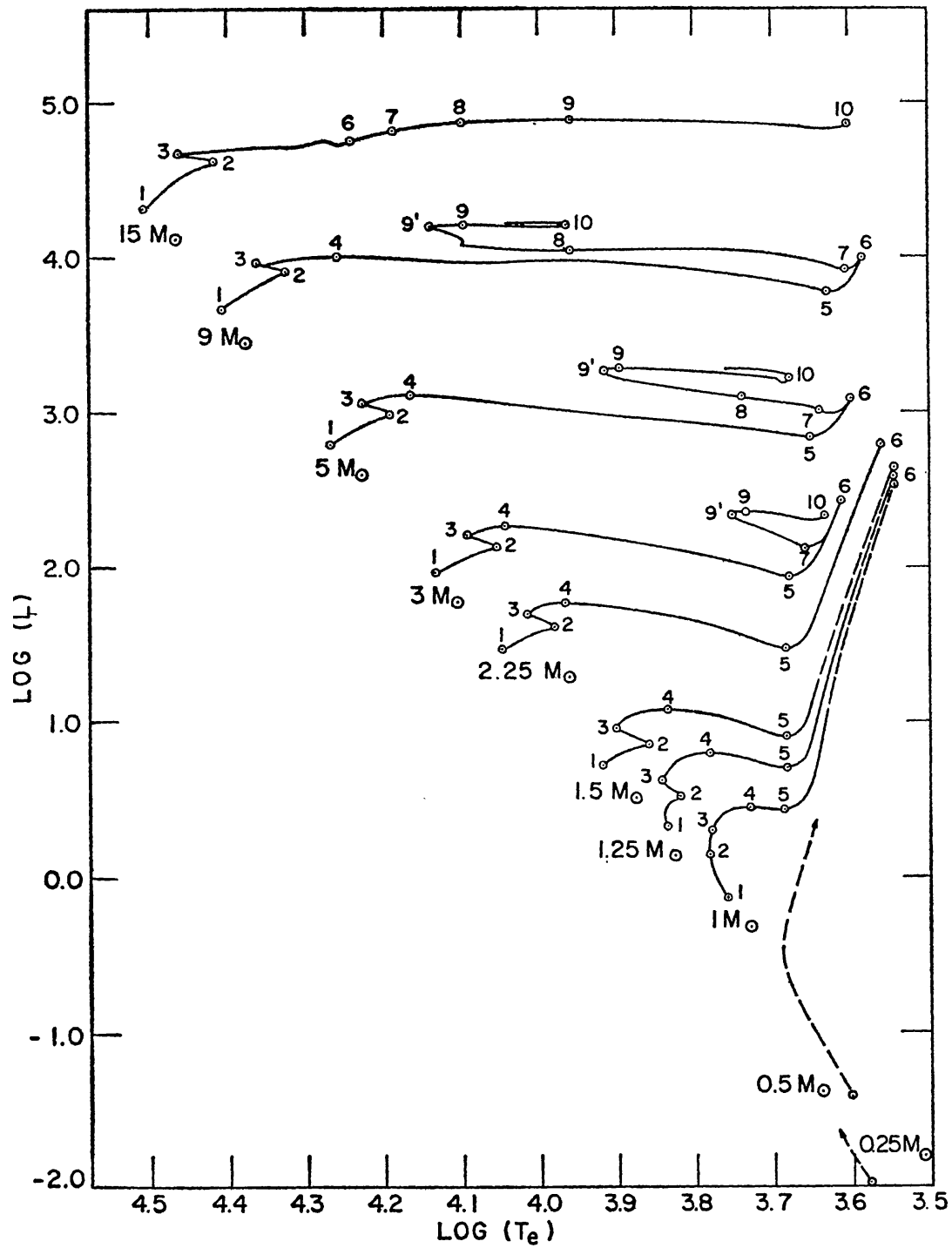
Iben 1967

Gradual change in size of Sun



Now 40% brighter, 6% larger, 5% hotter

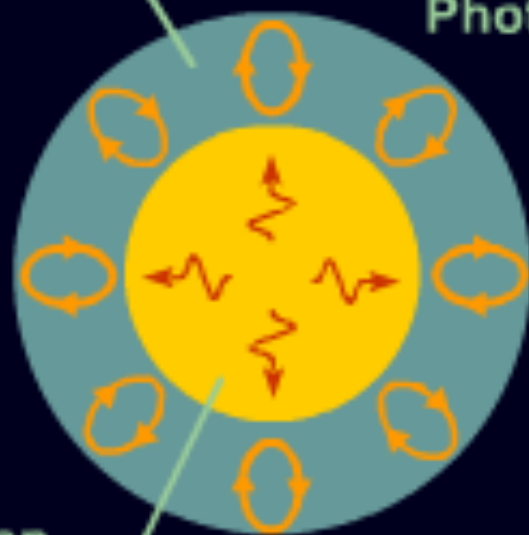




Iben 1967

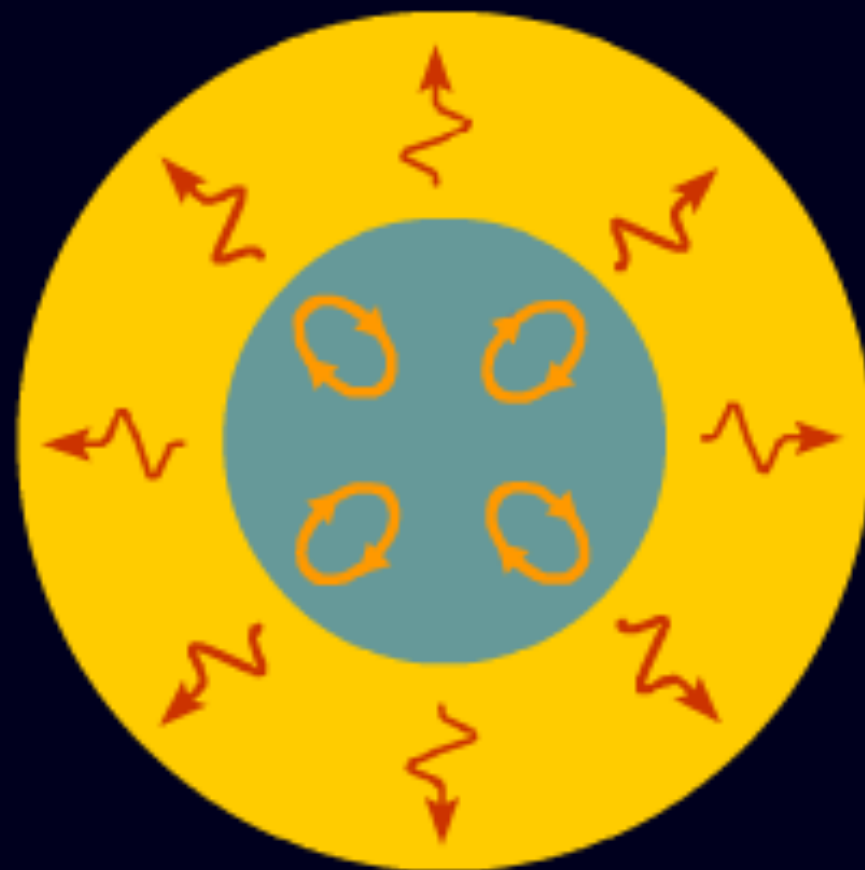
Convection

Photosphere



Radiation

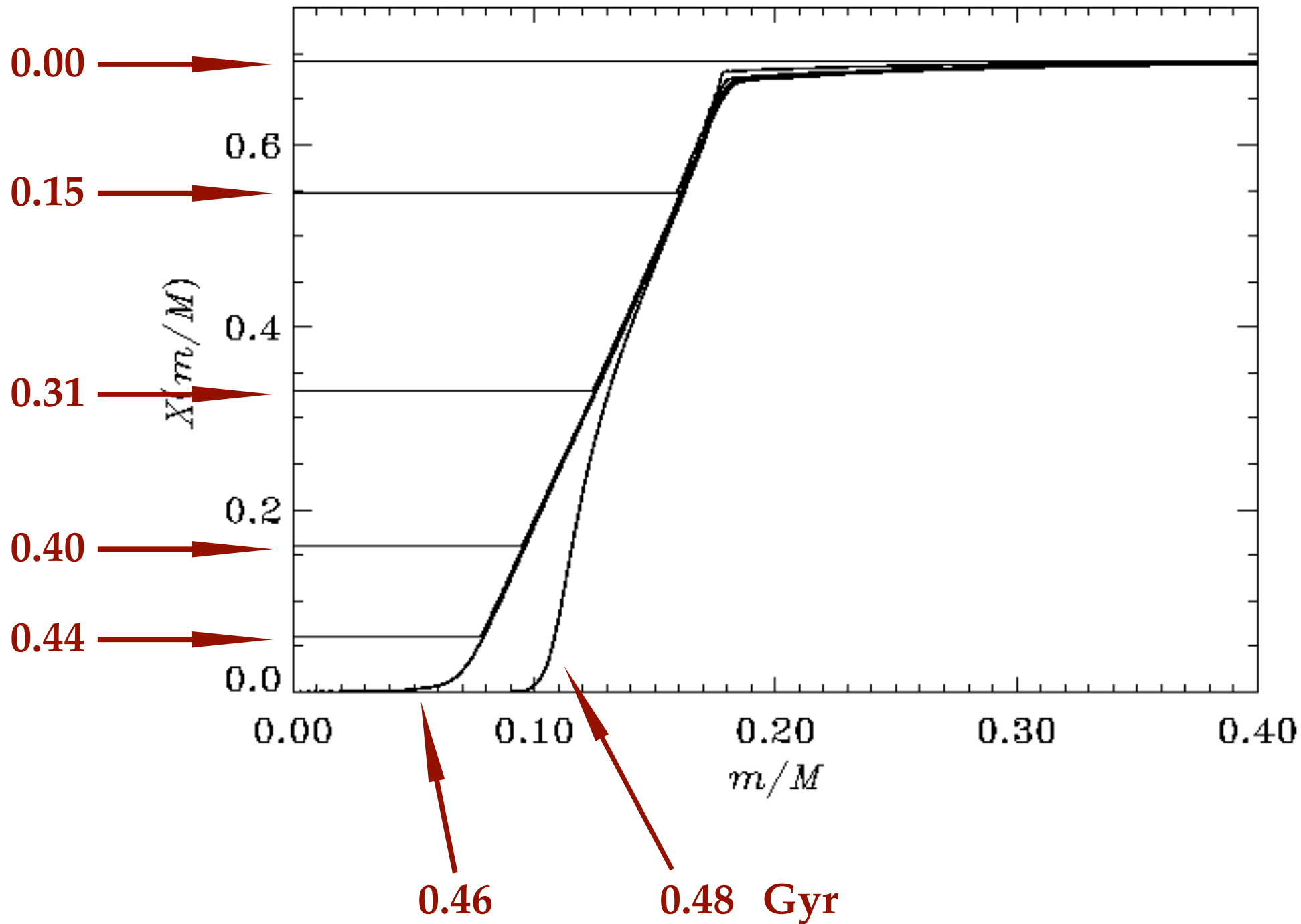
1 Solar Mass Star

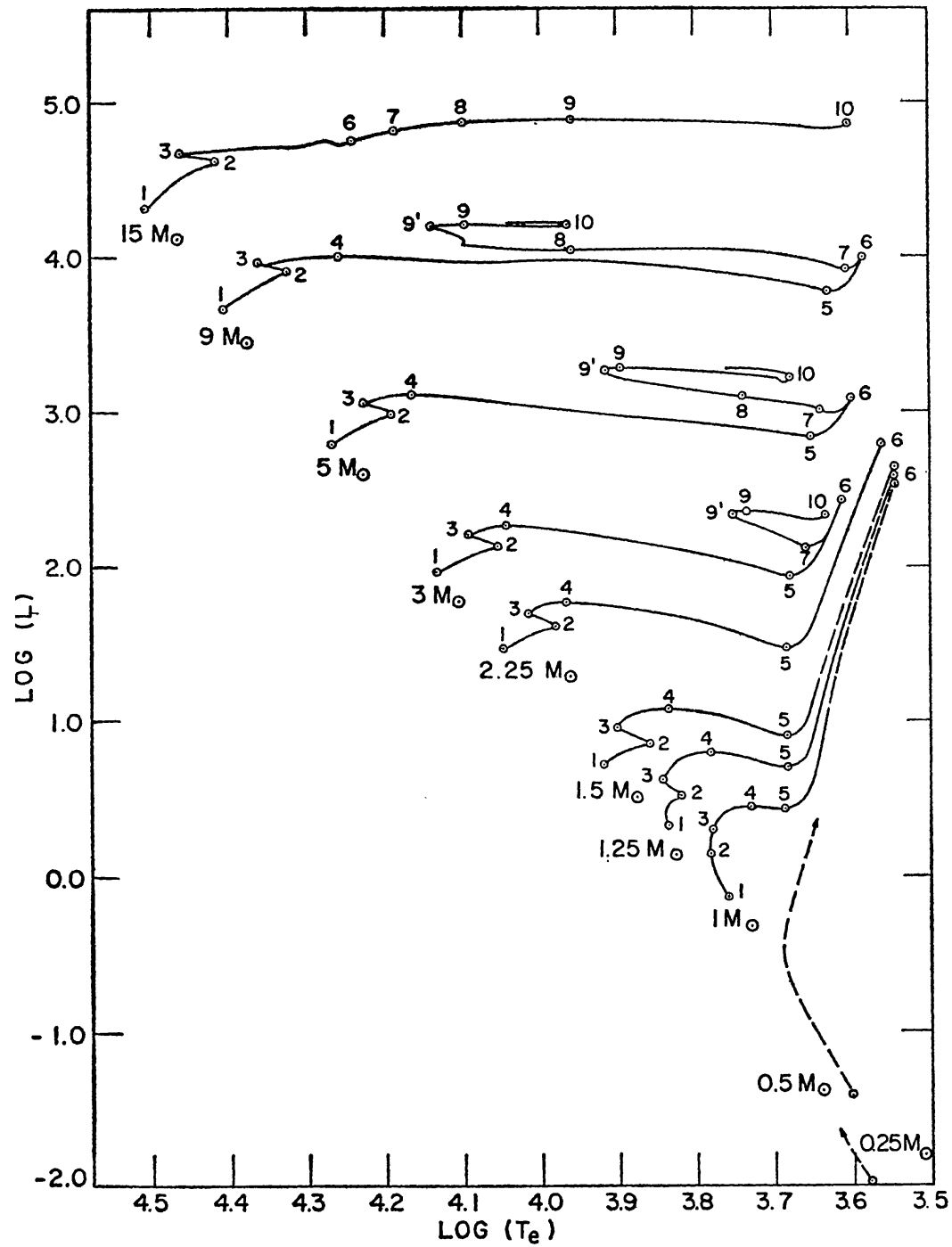


Massive Star

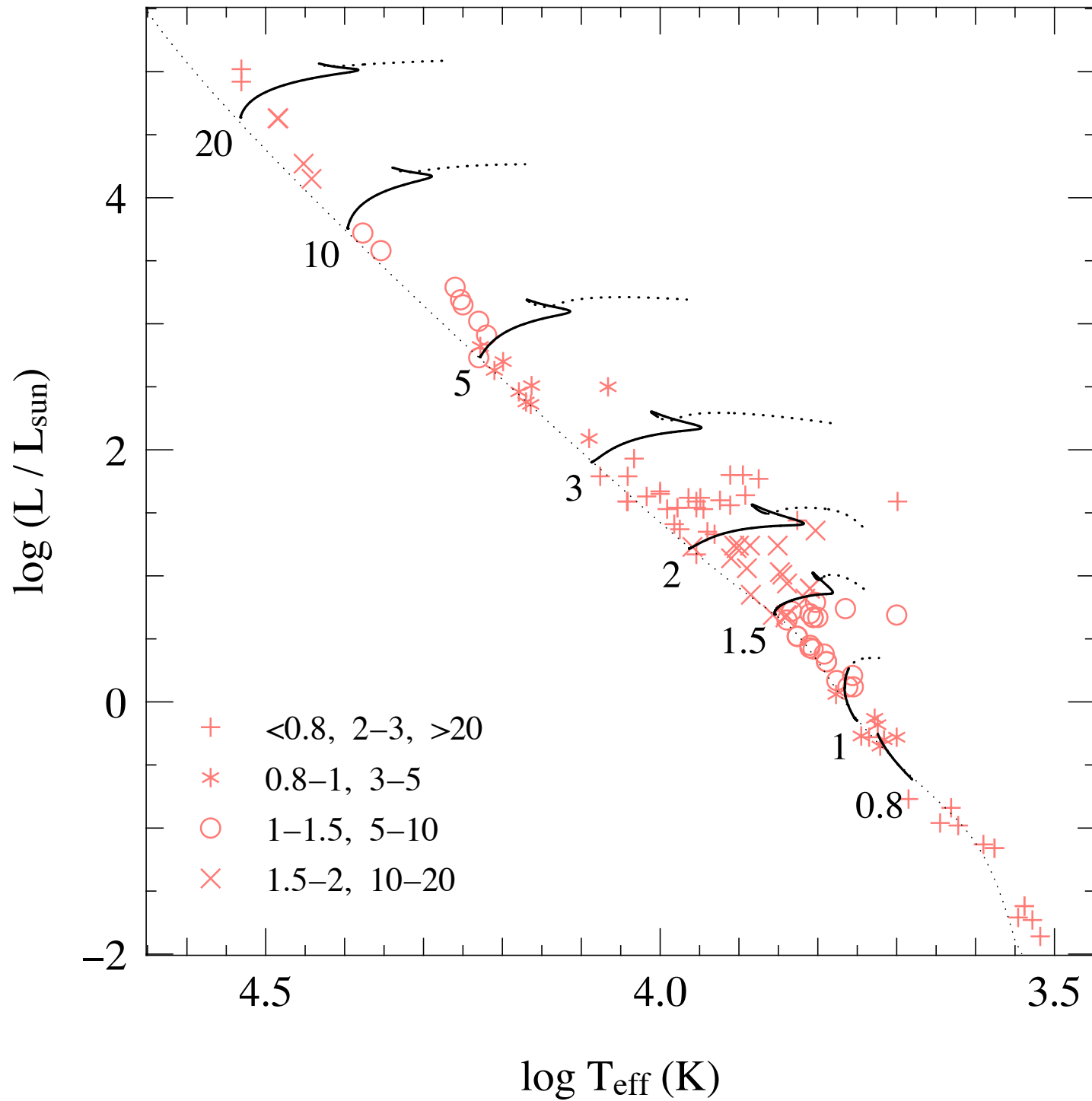
0.1 Solar Mass Star

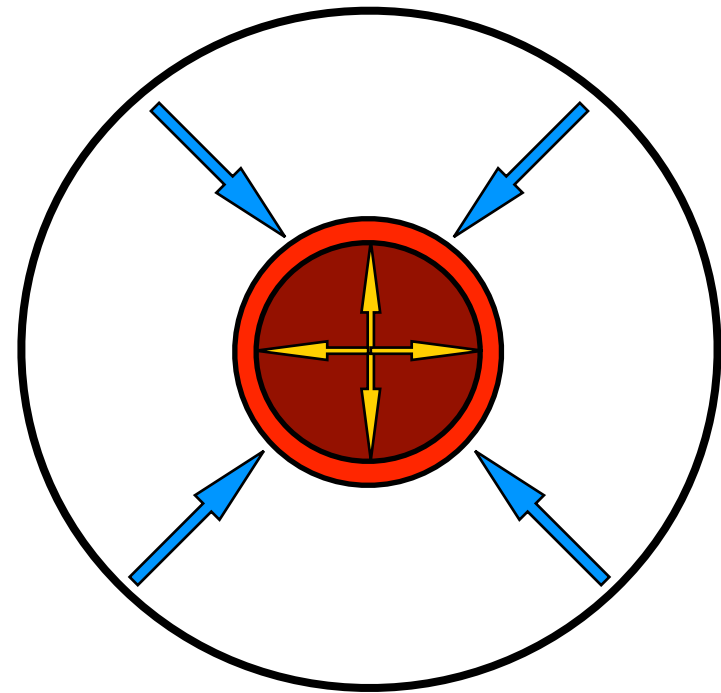
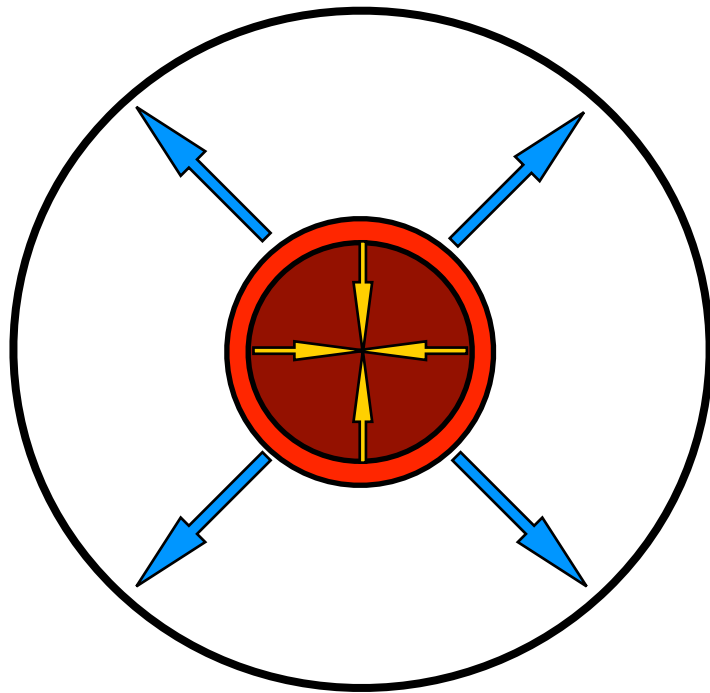




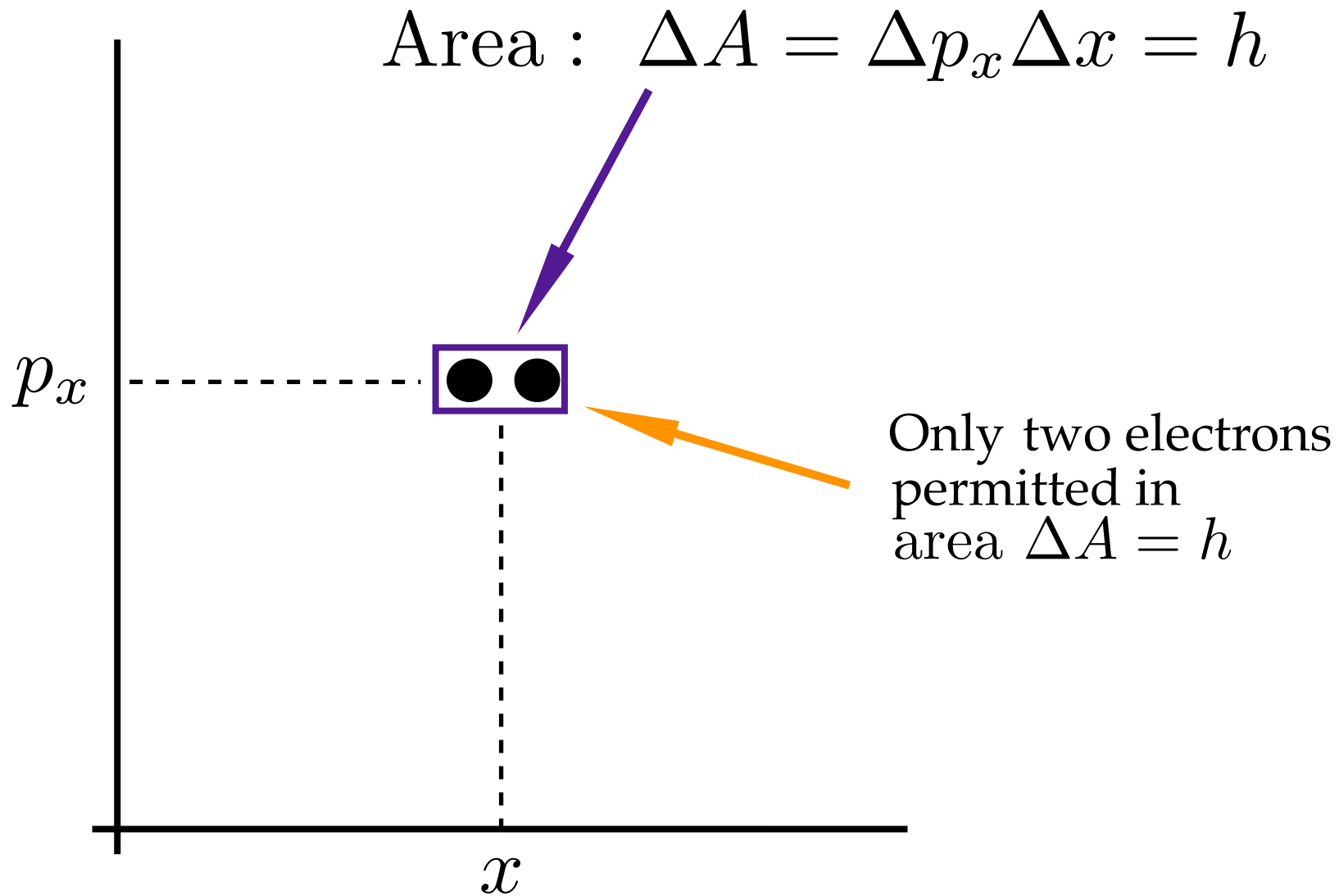


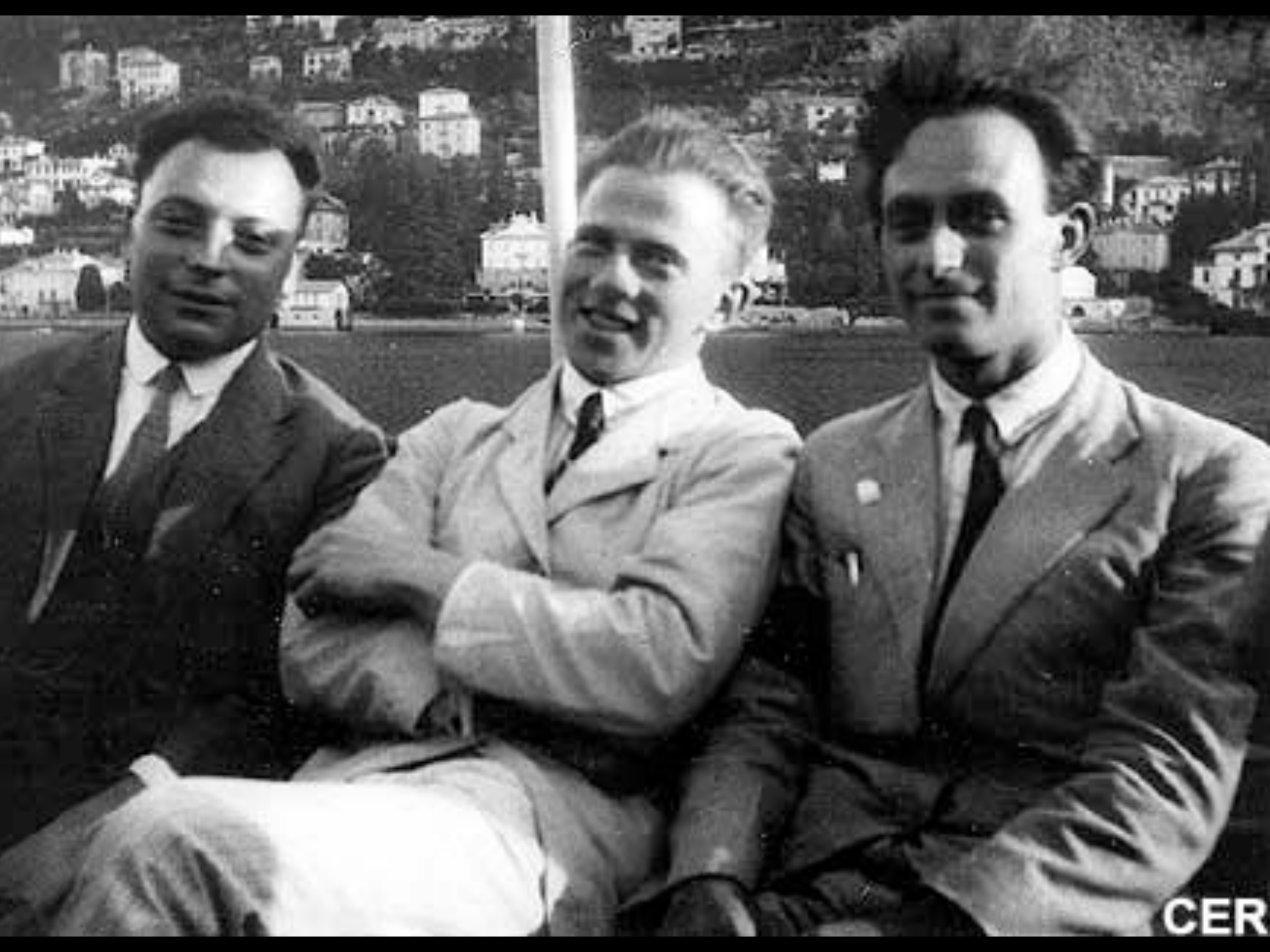
Iben 1967



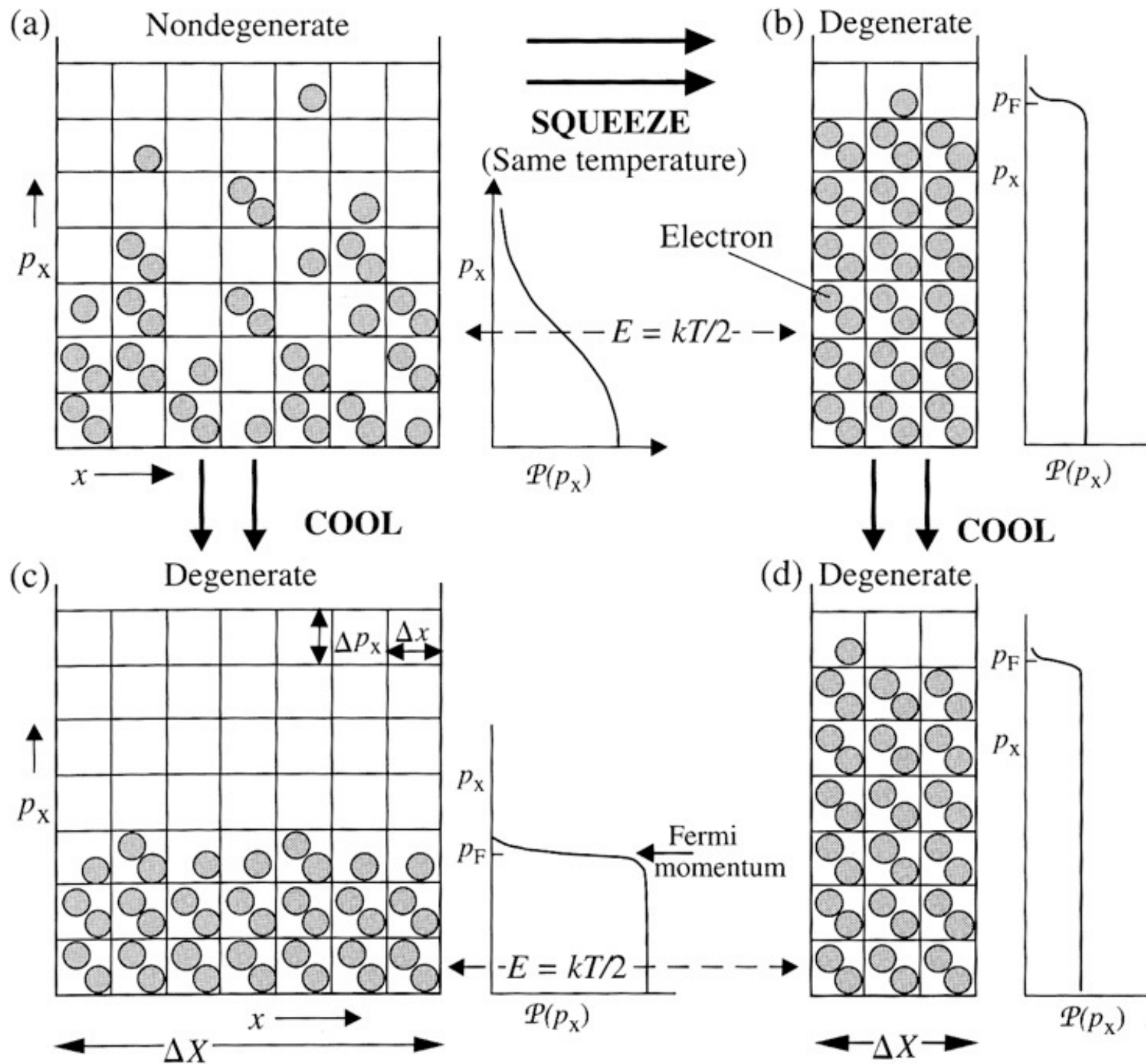


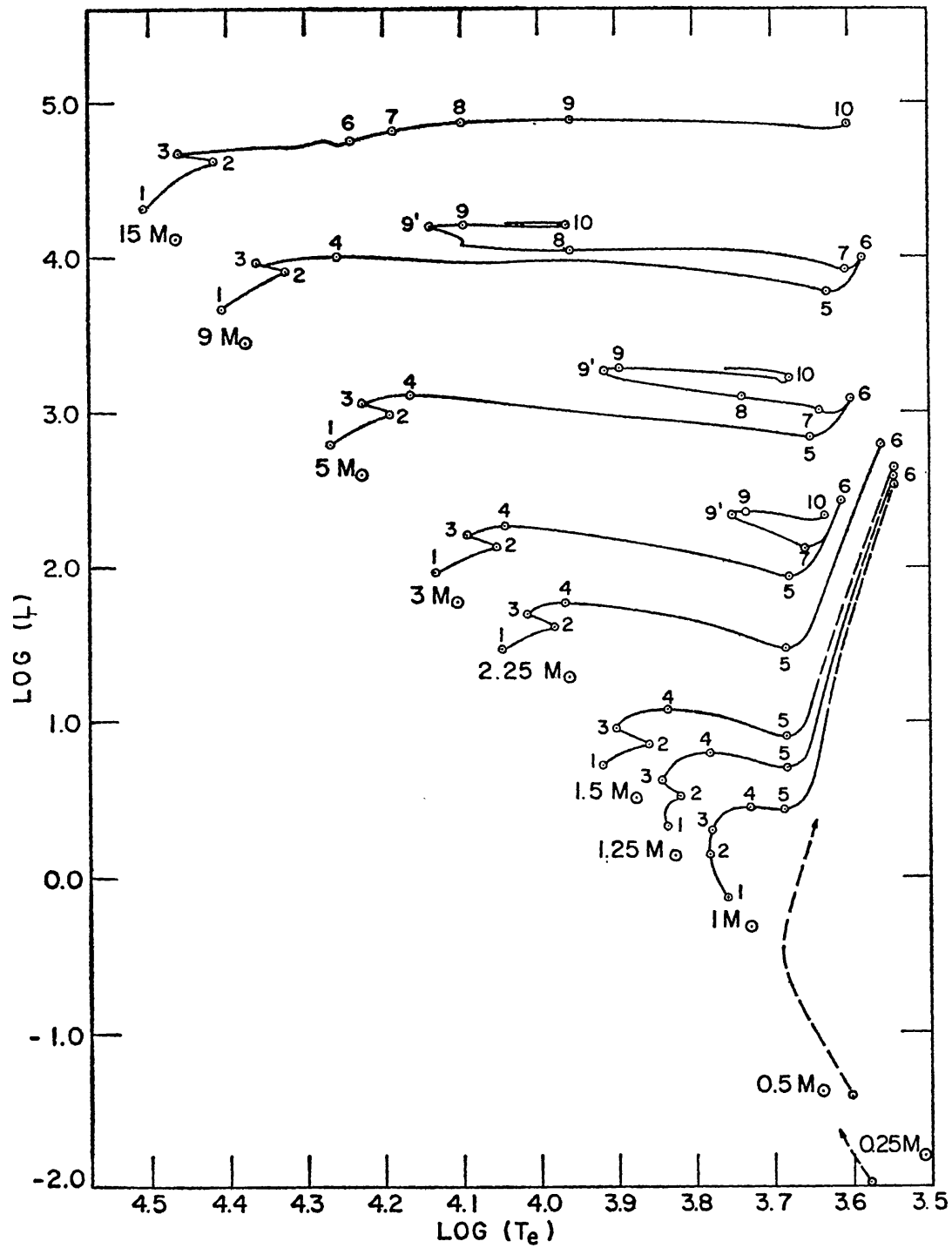
The Mirror Principle of Shell-Burning Stars



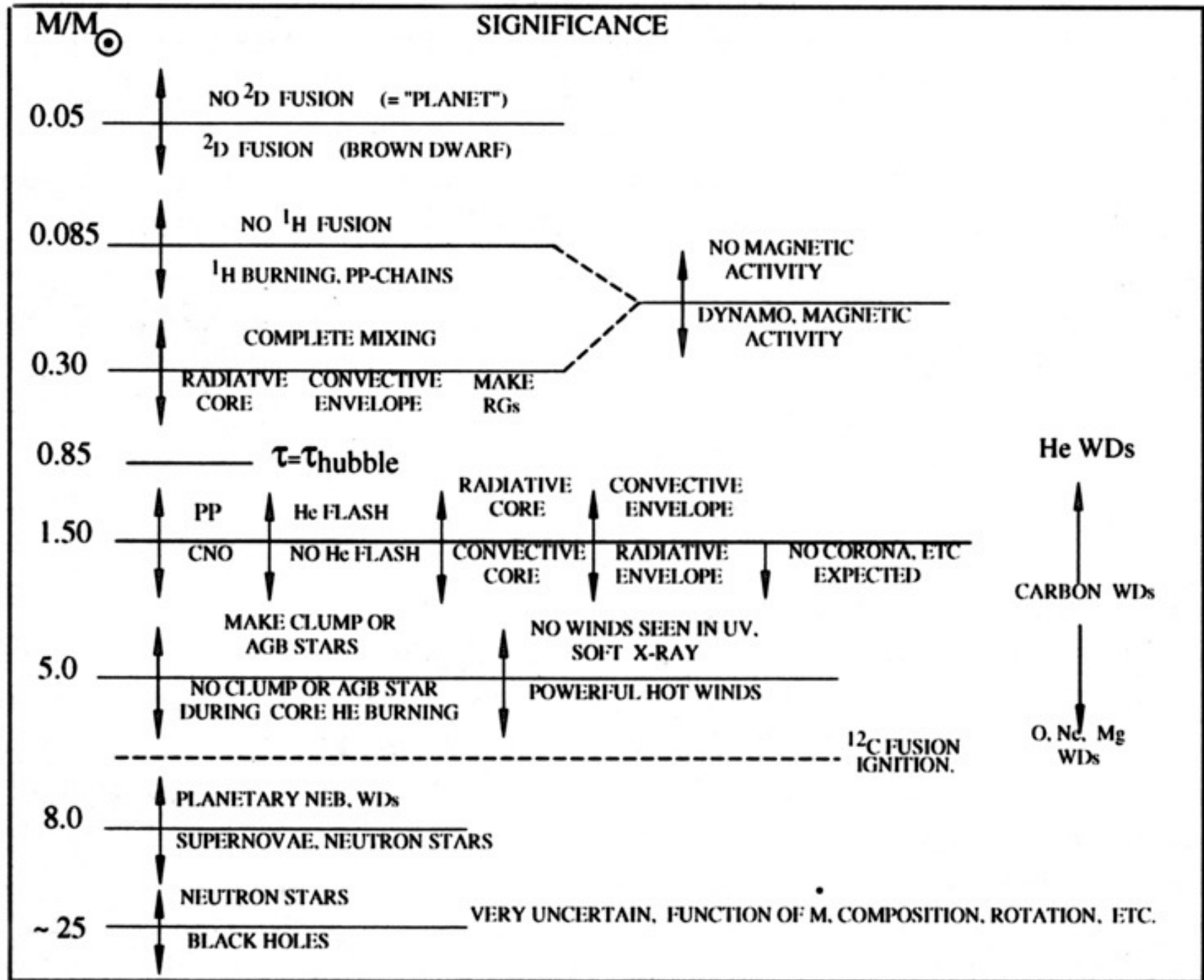


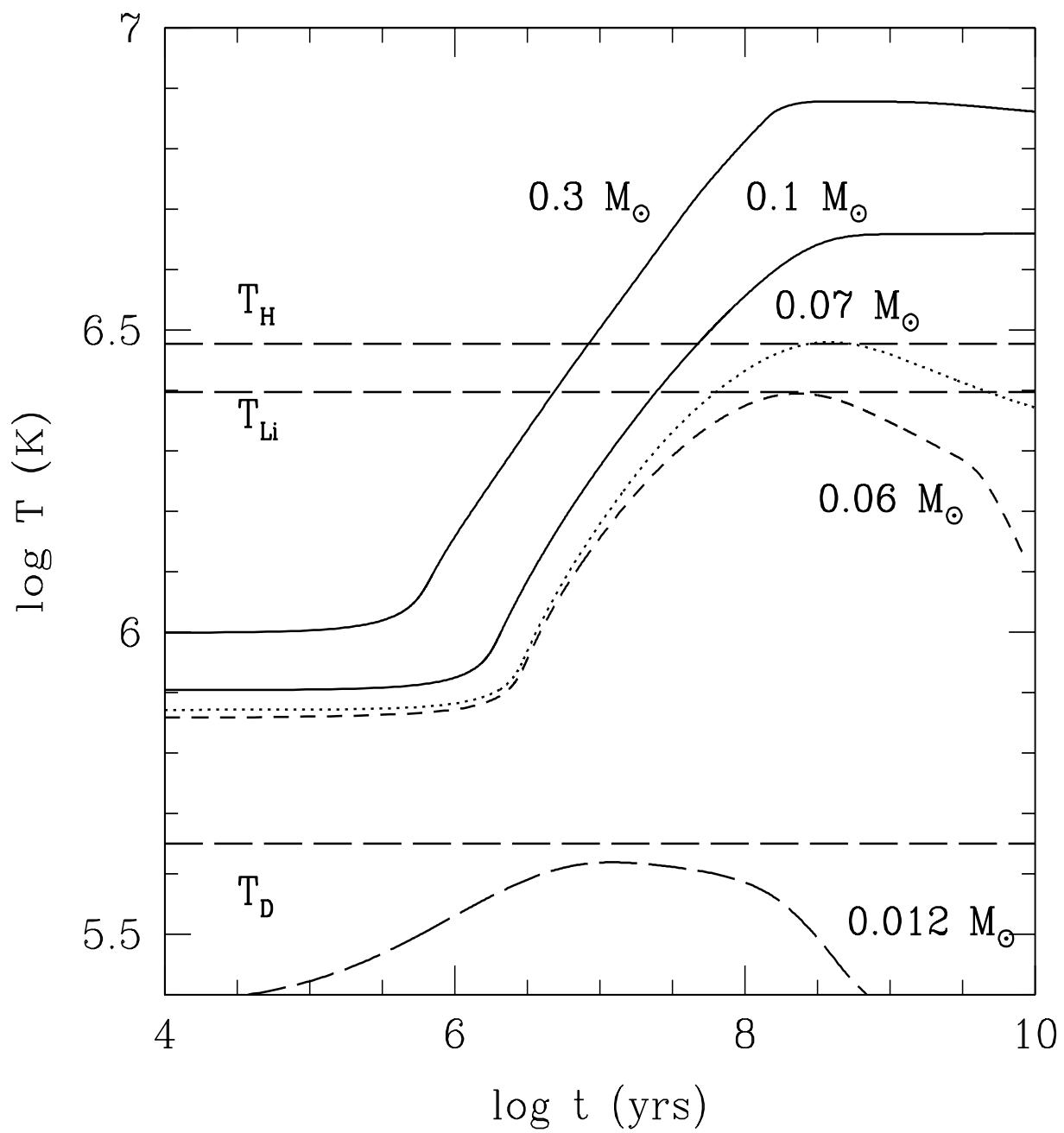
CER



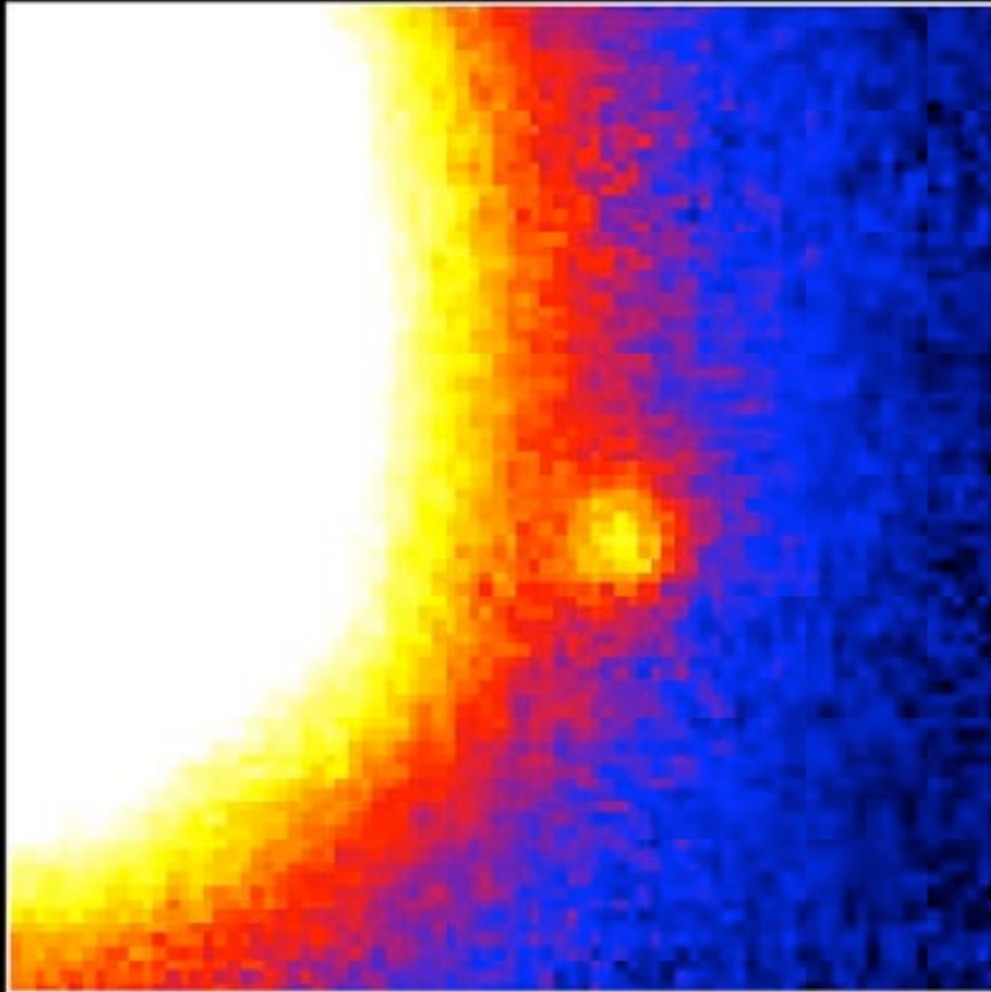


Iben 1967





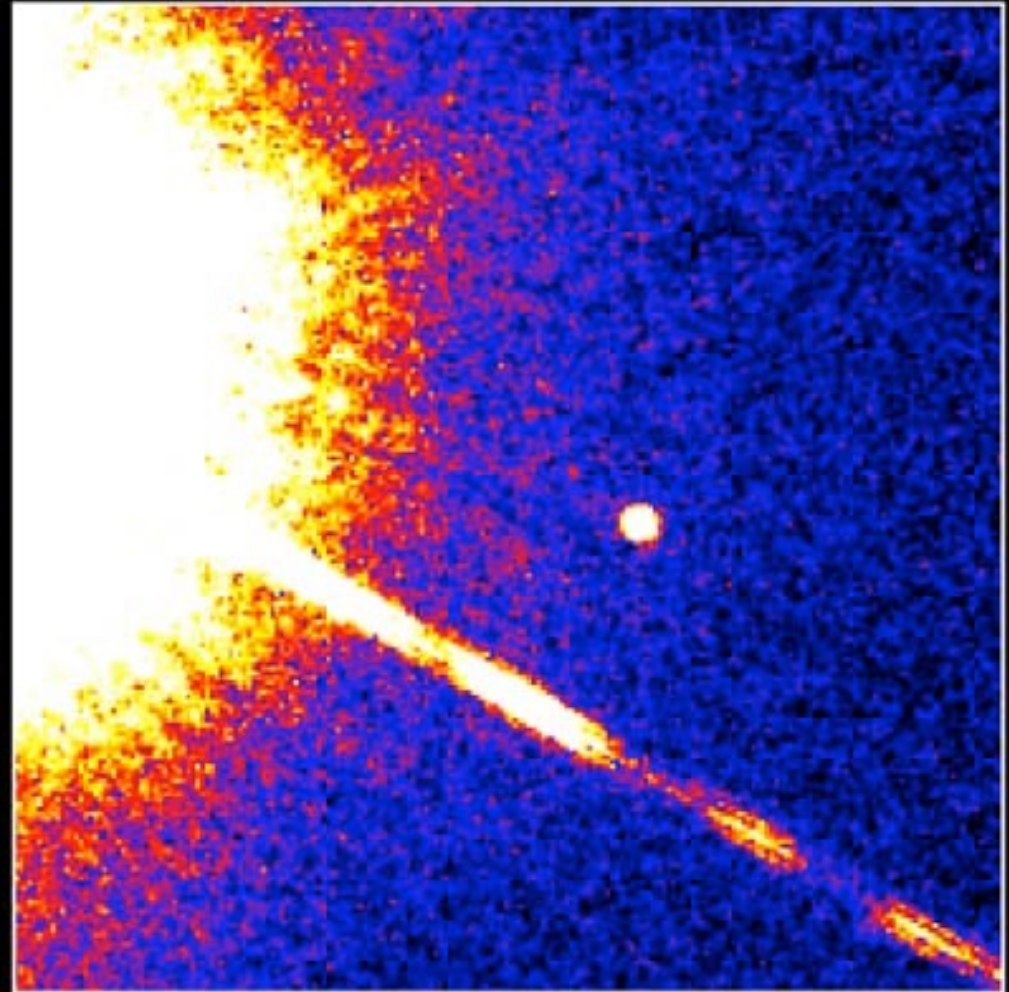
Brown Dwarf Gliese 229B



Palomar Observatory

Discovery Image

October 27, 1994



Hubble Space Telescope

Wide Field Planetary Camera 2

November 17, 1995

PRC95-48 · ST Sci OPO · November 29, 1995

T. Nakajima and S. Kulkarni (CalTech), S. Durrance and D. Golimowski (JHU), NASA





